

## 09802320 Results

## SUMMARIES

Result	No.	Score	% Query Match	Length	DB	ID	Description
	1	20.6	98.1	21	6	AX247904	AX247904 Sequence
	2	19	90.5	3283	6	AX305332	AX305332 Sequence
	3	19	90.5	3283	10	MMU06670	U06670 Mus musculu
c	4	18.6	88.6	937	9	BC004474	BC004474 Homo sapi
	5	18.6	88.6	1361	10	AF026064	AF026064 Mus muscu
	6	18.6	88.6	1406	9	HUMVLDLR01	D16495 Human gene
	7	18.6	88.6	2952	10	RATVLDLR	L35767 Rat very lo
	8	18.6	88.6	3308	9	HUMVLDLRA	D16493 Human mRNA
	9	18.6	88.6	3330	6	AR007142	AR007142 Sequence
	10	18.6	88.6	3330	6	AR025175	AR025175 Sequence
	11	18.6	88.6	3330	9	HUMVLDLRX	L22431 Human very
	12	18.6	88.6	3656	6	AR141979	AR141979 Sequence
	13	18.6	88.6	3656	6	I58668	I58668 Sequence 1
	14	18.6	88.6	3656	9	HUMVLDLR	L20470 Human very
	15	18.6	88.6	9592	6	AR141980	AR141980 Sequence
	16	18.6	88.6	9592	6	I58669	I58669 Sequence 3

## RESULT 1

AX247904

LOCUS AX247904 21 bp DNA linear PAT 28-SEP-2001

DEFINITION Sequence 5 from Patent WO0166801.

ACCESSION AX247904

VERSION AX247904.1 GI:15862527

KEYWORDS .

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 21)

AUTHORS Engert,J., Vohl,M.C., Brewer,C., Morgan,K., Gaudet,D. and  
Hudson,T.J.TITLE Very low density lipoprotein receptor polymorphisms and uses there  
forJOURNAL Patent: WO 0166801-A 5 13-SEP-2001;  
Complexe Hospitalier de la Sagamie (CA) ; MCGILL UNIVERSITY (CA)

FEATURES Location/Qualifiers

source

1. .21

/organism="Homo sapiens"

/db\_xref="taxon:9606"

BASE COUNT 4 a 2 c 9 g 5 t 1 others

ORIGIN

Query Match 98.1%; Score 20.6; DB 6; Length 21;

Best Local Similarity 100.0%; Pred. No. 0.5;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggagga 21

|||||

Db 1 GGTAAC TTGTGTGCGGAGGA 21

## RESULT 2

AX305332

LOCUS AX305332 3283 bp DNA linear PAT 11-DEC-2001

DEFINITION Sequence 83 from Patent WO0188188.

ACCESSION AX305332

VERSION AX305332.1 GI:17644895

KEYWORDS .

SOURCE house mouse.

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE 1 (sites)  
AUTHORS Ishikawa,K., Asai,S., Takahashi,Y., Nagata,T. and Ishii,Y.  
TITLE Method for examining ischemic conditions  
JOURNAL Patent: WO 0188188-A 83 22-NOV-2001;  
School Juridical Person Nihon University (JP)  
FEATURES Location/Qualifiers  
source 1. .3283  
/organism="Mus musculus"  
/db\_xref="taxon:10090"  
BASE COUNT 876 a 766 c 838 g 803 t  
ORIGIN

Query Match 90.5%; Score 19; DB 6; Length 3283;  
Best Local Similarity 90.5%; Pred. No. 5;  
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgaggagga 21  
|||||||:|||||  
Db 115 GGTAACCTGTTGTGCGGACGA 135

RESULT 3  
MMU06670  
LOCUS MMU06670 3283 bp mRNA linear ROD 10-JAN-1995  
DEFINITION Mus musculus very low density lipoprotein receptor mRNA, complete  
cds.  
ACCESSION U06670  
VERSION U06670.1 GI:619646  
KEYWORDS .  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE 1 (bases 1 to 3283)  
AUTHORS Gafvels,M.E., Paavola,L.G., Boyd,C.O., Nolan,P.M., Wittmaack,F.,  
Chawla,A., Lazar,M.A., Bucan,M., Angelin,B.O. and Strauss,J.F. III.  
TITLE Cloning of a complementary deoxyribonucleic acid encoding the  
murine homolog of the very low density lipoprotein/apolipoprotein-E  
receptor: expression pattern and assignment of the gene to mouse  
chromosome 19  
JOURNAL Endocrinology 135 (1), 387-394 (1994)  
MEDLINE 94283285  
REFERENCE 2 (bases 1 to 3283)  
AUTHORS Gafvels,M.E.  
TITLE Direct Submission  
JOURNAL Submitted (14-FEB-1994) Mats E. Gafvels, Dept. of Ob/Gyn,  
University of Pennsylvania School of Medicine, 778 CRB, 422 Curie  
Boulevard, Philadelphia, PA 19104, USA  
COMMENT On Jan 10, 1995 this sequence version replaced gi:463845.  
FEATURES Location/Qualifiers  
source 1. .3283  
/organism="Mus musculus"  
/db\_xref="taxon:10090"  
/chromosome="19"  
/tissue\_type="skeletal muscle"  
/clone\_lib="lamda ZAP"  
/dev\_stage="adult"  
5'UTR 1. .181  
CDS 182. .2803  
/codon\_start=1  
/product="very low density lipoprotein receptor"  
/protein\_id="AAA59384.1"  
/db\_xref="GI:619647"  
/translation="MGTSARWALWLLALCWAPRD SGATASGKKAKCDSSQFQCTNGR  
CITLLWKCDGDEDCADGSDEKNCVKKTCAESDFVCKNGQCVPNRWQCDGDPDCEDGSD  
ESPEQCHMRTCRINEISGARSTQCIPVSWRC DGENDCDNGEDEENCGNITCSADEFT  
CSSGRCVSRNFVCGQDDCDGSDCLDCAPPTCGAHEFQCSTSSCIPLSWVCDDADDC  
SDQSDSELEQCGRQPVVHTKPTSEIQCGSGECIHKKWRCDGDPDCKDGSDEVNCP SR



FH Key Location/Qualifiers  
 FT variation replace (11, G)  
 FT /\*tag= a  
 FT /standard\_name= "Single nucleotide polymorphism"  
 XX  
 PN WO200166801-A2.  
 XX  
 PD 13-SEP-2001.  
 XX  
 PF 08-MAR-2001; 2001WO-US07444.  
 XX  
 PR 08-MAR-2000; 2000US-0187787.  
 XX  
 PA (COMP-) COMPLEXE HOSPITALIER SAGAMIE.  
 PA (UYMC-) UNIV MCGILL.  
 XX  
 PI Engert J, Vohl M, Brewer C, Morgan K, Gaudet D, Hudson TJ;  
 XX  
 DR WPI; 2001-522953/57.  
 XX  
 PT Polymorphic nucleic acid sequences encoding the very low density  
 PT lipoprotein receptor, useful for predicting the presence, absence or  
 PT severity of a particular phenotype or disorder, e.g. cardiovascular  
 PT disease such as coronary heart disease -  
 XX  
 PS Claim 1; Page 34; 44pp; English.  
 XX  
 CC The invention relates to polymorphic nucleic acid sequences encoding the  
 CC very low density lipoprotein receptor (VLDLr) and methods of analysing a  
 CC nucleic acid sample for polymorphisms. This method comprises obtaining a  
 CC nucleic acid sample from one or more individuals, and determining the  
 CC nucleotide occupying one or more of the polymorphic sites of one or more  
 CC nucleic acid molecules. The method is useful for predicting the presence,  
 CC absence or severity of a particular phenotype or disorder (e.g.  
 CC cardiovascular disease such as coronary heart disease associated with a  
 CC particular genotype. The nucleic acids containing the polymorphic sites  
 CC may also be useful in forensics and paternity testing. Wild-type or  
 CC variant nucleic acid molecules encoding VLDLr or wild-type or variant  
 CC VLDLr gene products can be used in the diagnosis and treatment of  
 CC cardiovascular diseases and other diseases associated with VLDLr. The  
 CC present sequence represents the coding sequence of VLDLr single  
 CC nucleotide polymorphism #5.  
 XX  
 SQ Sequence 21 BP; 4 A; 3 C; 9 G; 5 T; 0 other;

Query Match 98.1%; Score 20.6; DB 22; Length 21;  
 Best Local Similarity 95.2%; Pred. No. 0.24;  
 Matches 20; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggagga 21  
 |||||  
 Db 1 ggtaacttgctcgtgcggagga 21

# RESULT 2

ABI99253

ID ABI99253 standard; cDNA; 3283 BP.

XX

AC ABI99253;

XX

DT 07-MAR-2002 (first entry)

XX

DE Mouse ischaemic condition related cDNA sequence SEQ ID NO:83.

XX

KW Mouse; ischaemia; compressive ischaemia; occlusive ischaemia;

KW vasospastic ischaemia; ischaemic condition; ischaemic disease; ss.

XX

OS Mus musculus.

XX

PN WO200188188-A2.

XX  
PD 22-NOV-2001.  
XX  
PF 18-MAY-2001; 2001WO-JP04192.  
XX  
PR 18-MAY-2000; 2000JP-0145977.  
XX  
PA (UYNI-) UNIV NIHON SCHOOL JURIDICAL PERSON.  
XX  
PI Ishikawa K, Asai S, Takahashi Y, Nagata T, Ishii Y;  
XX  
DR WPI; 2002-034733/04.  
DR P-PSDB; ABB57051.  
XX  
PT Examining the ischemic condition (e.g. occlusive ischemia) by measuring  
PT expression levels of particular genes defined in the specification or  
PT by determining the expression profile of a gene group comprising these  
PT genes -  
XX  
PS Claim 2; Page 254-260; 2690pp; English.  
XX  
CC The present invention describes a method for examining ischaemic  
CC conditions, comprising measuring the expression levels of particular  
CC genes (I) in a test sample or determining the expression profile of a  
CC gene group in the sample comprising genes selected from (I). The method  
CC is useful for examining the ischaemic condition (e.g. compressive  
CC ischaemia, occlusive ischaemia or vasospastic ischaemia) by measuring  
CC expression levels of particular genes (ABI99202 to ABI99912, encoding  
CC the protein sequences in ABB57020 to ABB57374) or by determining the  
CC expression profile of a gene group comprising these genes. The  
CC expression levels or expression profiles produced by these genes are  
CC used as an indicator when screening for ischaemic condition-improving  
CC drugs or therapeutics for ischaemic diseases. ABI99913 and ABI99914  
CC represent PCR primers for a mouse ischaemic condition related sequence,  
CC which are used in the exemplification of the present invention.  
XX  
SQ Sequence 3283 BP; 876 A; 766 C; 838 G; 803 T; 0 other;

Query Match 90.5%; Score 19; DB 24; Length 3283;  
Best Local Similarity 90.5%; Pred. No. 2.7;  
Matches 19; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgaggagga 21  
|||||||:|||||||  
Db 115 ggtaacttggtgaggacga 135

RESULT 3  
AAQ88687  
ID AAQ88687 standard; DNA; 3330 BP.  
XX  
AC AAQ88687;  
XX  
DT 21-JAN-1996 (first entry)  
XX  
DE Human very low density lipoprotein receptor DNA.  
XX  
KW VLDL receptor; very low density lipoprotein receptor;  
KW hyperlipidaemia; cardiovascular disease; disease diagnosis;  
KW atherosclerosis; hypercholesterolemia; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT CDS 195..3330  
FT /\*tag= a  
XX  
PN W09513374-A2.  
XX  
PD 18-MAY-1995.

XX  
 PF 08-NOV-1994; 94WO-US12911.  
 XX  
 PR 08-NOV-1993; 93US-0149103.  
 XX  
 PA (BAYU ) BAYLOR COLLEGE MEDICINE.  
 XX  
 PI Chan LCB;  
 XX  
 DR WPI; 1995-194093/25.  
 DR P-PSDB; AAR74691.  
 XX  
 PT Nucleic acid encoding very low density lipoprotein receptor - used  
 PT to develop prods. for treating e.g. hyperlipidaemia for screening  
 PT assays and for diagnostic imaging  
 XX  
 PS Claim 2; Page 39; 59pp; English.  
 XX  
 CC This DNA may be expressed recombinantly in a transgenic animal. By  
 CC elevating levels of a VLDL receptor in an animal, the receptors will  
 CC aid in removal of circulating VLDL and related lipoproteins to  
 CC decrease the risk of developing coronary diseases. It may be used  
 CC in the treatment of e.g. hyperlipidaemia, atherosclerosis or  
 CC hypercholesterolemia.  
 XX  
 SQ Sequence 3330 BP; 932 A; 727 C; 830 G; 841 T; 0 other;

Query Match 88.6%; Score 18.6; DB 16; Length 3330;  
 Best Local Similarity 94.7%; Pred. NO. 4.4;  
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgaggag 19  
 |||||:|||||  
 Db 45 ggtaacttgctgaggag 63

Issued:

#### SUMMARIES

Result No.	% Query		DB	ID	Description
	Score	Match Length			
1	18.6	88.6 3330	1	US-08-149-103-1	Sequence 1, Appli
2	18.6	88.6 3330	1	US-08-451-883-1	Sequence 1, Appli
3	18.6	88.6 3656	1	US-08-393-734-1	Sequence 1, Appli
4	18.6	88.6 3656	4	US-08-894-489-1	Sequence 1, Appli
5	18.6	88.6 9592	1	US-08-393-734-3	Sequence 3, Appli
6	18.6	88.6 9592	4	US-08-894-489-3	Sequence 3, Appli
7	14.4	68.6 2154	4	US-09-488-856A-3	Sequence 3, Appli
c 8	14.4	68.6 3606	1	US-07-661-610C-7	Sequence 7, Appli
9	14.4	68.6 12394	4	US-09-488-856A-10	Sequence 10, Appl
10	14.2	67.6 1049	4	US-09-021-701-39	Sequence 39, Appl
c 11	14.2	67.6 1075	4	US-09-276-531-95	Sequence 95, Appl
12	14.2	67.6 1288	1	US-08-047-041A-24	Sequence 24, Appl
13	14.2	67.6 1316	1	US-08-047-041A-11	Sequence

RESULT 1  
 US-08-149-103-1  
 ; Sequence 1, Application US/08149103  
 ; Patent No. 5750367  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lawrence C. B. Chan  
 ; TITLE OF INVENTION: HUMAN AND MOUSE VERY LOW  
 ; TITLE OF INVENTION: DENSITY LIPOPROTEIN RECEPTORS  
 ; TITLE OF INVENTION: AND METHODS FOR USE OF SUCH  
 ; TITLE OF INVENTION: RECEPTORS  
 ; NUMBER OF SEQUENCES: 4

```

;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE:  LYON & LYON
;   STREET:  611 West Sixth Street
;   CITY:  Los Angeles
;   STATE:  California
;   COUNTRY:  U.S.A.
;   ZIP:  90017
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE:  3.5" Diskette, 1.44 Mb storage
;   COMPUTER:  IBM PC compatible
;   OPERATING SYSTEM:  IBM MS-DOS (Version 5.0)
;   SOFTWARE:  WordPerfect (Version 5.1)
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER:  US/08/149,103
;   FILING DATE:
;   CLASSIFICATION:  435
;   PRIOR APPLICATION DATA:
;   PRIOR APPLICATION DATA:  including application
;   PRIOR APPLICATION DATA:  described below:          none
;   APPLICATION NUMBER:
;   FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;   NAME:  Warburg, Richard J.
;   REGISTRATION NUMBER:  32,327
;   REFERENCE/DOCKET NUMBER:  204/052
;   TELECOMMUNICATION INFORMATION:
;   TELEPHONE:  (213) 489-1600
;   TELEFAX:  (213) 955-0440
;   TELEX:  67-3510
;   INFORMATION FOR SEQ ID NO:  1:
;   SEQUENCE CHARACTERISTICS:
;   LENGTH:  3330 base pairs
;   TYPE:  nucleic acid
;   STRANDEDNESS:  single
;   TOPOLOGY:  linear
US-08-149-103-1

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Query Match          88.6%;  Score 18.6;  DB 1;  Length 3330;
Best Local Similarity 94.7%;  Pred. No. 0.51;
Matches 18;  Conservative 1;  Mismatches 0;  Indels 0;  Gaps 0;

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Qy      1 ggtaacttgtygtgcgag 19
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Db      45 GGTAACCTGTCGTGCGGAG 63

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RESULT  2
US-08-451-883-1
; Sequence 1, Application US/08451883
; Patent No. 5798209
;   GENERAL INFORMATION:
;   APPLICANT:  Lawrence C.B. Chan
;   TITLE OF INVENTION:  HUMAN AND MOUSE VERY LOW DENSITY
;   TITLE OF INVENTION:  LIPOPROTEIN RECEPTORS AND METHODS FOR
;   TITLE OF INVENTION:  USE OF SUCH RECEPTORS
;   NUMBER OF SEQUENCES:  4
;   CORRESPONDENCE ADDRESS:
;   ADDRESSEE:  LYON & LYON
;   STREET:  633 West Fifth Street, Suite 4700
;   CITY:  Los Angeles
;   STATE:  California
;   COUNTRY:  U.S.A.
;   ZIP:  90071-2066
;   COMPUTER READABLE FORM:
;   MEDIUM TYPE:  3.5" Diskette, 1.44 Mb storage
;   COMPUTER:  IBM PC compatible
;   OPERATING SYSTEM:  IBM MS-DOS (Version 6.22)
;   SOFTWARE:  WordPerfect (Version 5.1)
;   CURRENT APPLICATION DATA:
;   APPLICATION NUMBER:  US/08/451,883

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; FILING DATE: May 26, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; PRIOR APPLICATION DATA: including application
; PRIOR APPLICATION DATA: described below: one
; APPLICATION NUMBER: 08/149,103
; FILING DATE: No. 5798209ember 8, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Knight, Matthew W.
; REGISTRATION NUMBER: 36,846
; REFERENCE/DOCKET NUMBER: 212/268
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3330 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-451-883-1
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Query Match      88.6%; Score 18.6; DB 1; Length 3330;
Best Local Similarity 94.7%; Pred. No. 0.51;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1 ggtaacttgtygtgcggag 19
        |||||:|||||
Db      45 GGTAAC TTGTCGTGCGGAG 63
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#### SUMMARIES

Result No.	Score	% Match	Query Length	DB ID	Description
c 1	18.6	88.6	265	10 BE863986	BE863986 UI-M-BH1-
2	18.6	88.6	404	10 BF462855	BF462855 UI-M-CG0p
c 3	18.6	88.6	438	9 AA444716	AA444716 ve75c04.r
4	18.6	88.6	510	10 BF466075	BF466075 UI-M-CG0p
5	18.6	88.6	624	10 BF466831	BF466831 UI-M-CG0p
6	18.6	88.6	686	9 BB625757	BB625757 BB625757
7	18.6	88.6	700	10 BE985363	BE985363 UI-M-CG0p
8	18.6	88.6	773	10 BE981910	BE981910 UI-M-CG0p
9	18	85.7	251	9 BB584440	BB584440 BB584440
10	18	85.7	1904	10 BE559511	BE559511 601345339
11	17.6	83.8	433	10 BI338298	BI338298 362016 MA
c 12	17.4	82.9	367	12 AQ922702	AQ922702 RPCI-23-2
c 13	17.4	82.9	760	10 BG195845	BG195845 RST15106
14	16.4	78.1	275	10 BF729751	BF729751 mab75f12.

```
RESULT 1
BE863986/c
LOCUS BE863986 265 bp mRNA linear EST 29-SEP-2000
DEFINITION UI-M-BH1-anh-f-10-0-UI.r1 NIH_BMAP_M_S2 Mus musculus cDNA clone
UI-M-BH1-anh-f-10-0-UI 5', mRNA sequence.
ACCESSION BE863986
VERSION BE863986.1 GI:10384574
KEYWORDS EST.
SOURCE house mouse.
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE 1 (bases 1 to 265)
AUTHORS Bonaldo,M.F., Lennon,G. and Soares,M.B.
TITLE Normalization and subtraction: two approaches to facilitate gene
```



discovery  
JOURNAL Genome Res. 6 (9), 791-806 (1996)  
MEDLINE 97044477  
COMMENT Contact: Chin, H  
National Institute of Mental Health  
6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD  
20892-9643, USA  
Tel: 301 443 1706  
Fax: 301 443 9890  
Email: mEST@mail.nih.gov  
cDNA Library Preparation: M.B. Soares Lab Clone distribution:  
Researchers may obtain BMAP cDNA clones from RESEARCH GENETICS. It  
should be noted that Bento Soares is generating a small number of  
additional specialized non-redundant arrays of BMAP cDNAs whose  
availability will be considered under appropriate and limited  
collaborative arrangements  
Seq primer: M13 Reverse.

FEATURES  
source Location/Qualifiers  
1. .265  
/organism="Mus musculus"  
/strain="C57BL/6J"  
/db\_xref="taxon:10090"  
/clone="UI-M-BH1-anh-f-10-0-UI"  
/clone\_lib="NIH\_BMAP\_M\_S2"  
/dev\_stage="27-32 days"  
/lab\_host="DH10B (Life Technologies)"  
/note="Vector: pT7T3D-Pac (Pharmacia) with a modified  
polylinker; Site\_1: Not I; Site\_2: Eco RI; The  
NIH\_BMAP\_M\_S2 library is a subtracted library derived from  
NIH\_BMAP\_M\_S1, which in turn is a subtracted library  
derived from a mixture of normalized libraries from ten  
regions of the mouse brain (cerebellum, brain stems,  
olfactory bulbs, hypothalamus, cortex, amygdala, basal  
ganglia, pineal gland, striatum, hippocampus). The driver  
used for subtraction consisted of a pool of 5,000 clones  
from the NIH\_BMAP\_M\_S1 library and a pool of 2,000 clones  
obtained from non-normalized and normalized mouse brain  
spinal cord libraries."

BASE COUNT 42 a 90 c 93 g 40 t  
ORIGIN

Query Match 88.6%; Score 18.6; DB 10; Length 265;  
Best Local Similarity 94.7%; Pred. No. 33;  
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ggtaacttgtygtgcggag 19  
|||||||:|||||||  
Db 179 GGTAACCTGTTGTGCGGAG 161

RESULT 2  
BF462855  
LOCUS BF462855 404 bp mRNA linear EST 04-DEC-2000  
DEFINITION UI-M-CG0p-bni-h-05-0-UI.s1 NIH\_BMAP\_Ret4\_S2 Mus musculus cDNA clone  
UI-M-CG0p-bni-h-05-0-UI 3', mRNA sequence.  
ACCESSION BF462855  
VERSION BF462855.1 GI:11532078  
KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
REFERENCE 1 (bases 1 to 404)  
AUTHORS Bonaldo,M.F., Lennon,G. and Soares,M.B.  
TITLE Normalization and subtraction: two approaches to facilitate gene  
discovery  
JOURNAL Genome Res. 6 (9), 791-806 (1996)  
MEDLINE 97044477  
COMMENT Contact: Chin, H  
National Institute of Mental Health

6001 Executive Blvd. Room 7N-7190, MSC 9643, Bethesda, MD  
 20892-9643, USA  
 Tel: 301 443 1706  
 Fax: 301 443 9890  
 Email: mEST@mail.nih.gov  
 Oligo-dT track not found, Not I site shown in beginning of sequence  
 is likely internal to the message. cDNA Library Preparation: M.B.  
 Soares Lab Clone distribution: Researchers may obtain BMAP cDNA  
 clones from RESEARCH GENETICS. It should be noted that Bento Soares  
 is generating a small number of additional specialized  
 non-redundant arrays of BMAP cDNAs whose availability will be  
 considered under appropriate and limited collaborative arrangements  
 The following repetitive elements were found in this cDNA sequence:  
 118-182, >(GGA)n#Simple\_repeat  
 Seq primer: M13 Forward  
 POLYA=No.

FEATURES                      Location/Qualifiers  
     source                      1. .404  
                                  /organism="Mus musculus"  
                                  /strain="C57BL/6J"  
                                  /db\_xref="taxon:10090"  
                                  /clone="UI-M-CG0p-bni-h-05-0-UI"  
                                  /clone\_lib="NIH\_BMAP\_Ret4\_S2"  
                                  /lab\_host="DH10B (Life Technologies)"  
                                  /note="Vector: pT7T3D-Pac (Pharmacia) with a modified  
                                  polylinker; Site\_1: Not I; Site\_2: Eco RI; The  
                                  NIH\_BMAP\_Ret4\_S2 library is a subtracted library,  
                                  ultimately derived from mouse retina tissue libraries at  
                                  various stages of development. For a detailed description  
                                  of the library from which this clone was derived, please  
                                  visit our web site at brainest.eng.uiowa.edu.  
                                  TAG\_SEQ=None found"  
 BASE COUNT                      54 a      132 c      141 g      77 t  
 ORIGIN

Query Match                      88.6%;   Score 18.6;   DB 10;   Length 404;  
 Best Local Similarity           94.7%;   Pred. No. 37;  
 Matches    18;   Conservative    1;   Mismatches    0;   Indels    0;   Gaps    0;

Qy            1 ggtaacttgtygtgaggag 19  
                  |||||:|||||  
 Db           191 GGTAACCTTGTGTGCGGAG 209

RESULT    3  
 AA444716/c  
 LOCUS            AA444716                      438 bp      mRNA      linear      EST 03-JUN-1997  
 DEFINITION       ve75c04.r1 Soares\_mammary\_gland\_NbMMG Mus musculus cDNA clone  
                          IMAGE:832038 5' similar to gb:U06670 Mus musculus very low density  
                          lipoprotein receptor mRNA, complete (MOUSE);, mRNA sequence.  
 ACCESSION        AA444716  
 VERSION           AA444716.1    GI:2157175  
 KEYWORDS           EST.  
 SOURCE           house mouse.  
     ORGANISM       Mus musculus  
                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
                          Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 REFERENCE        1 (bases 1 to 438)  
     AUTHORS        Marra,M., Hillier,L., Allen,M., Bowles,M., Dietrich,N., Dubuque,T.,  
                          Geisel,S., Kucaba,T., Lacy,M., Le,M., Martin,J., Morris,M.,  
                          Schellenberg,K., Steptoe,M., Tan,F., Underwood,K., Moore,B.,  
                          Theising,B., Wylie,T., Lennon,G., Soares,B., Wilson,R. and  
                          Waterston,R.  
     TITLE           The WashU-HHMI Mouse EST Project  
     JOURNAL          Unpublished (1996)  
 COMMENT           Contact: Marra M/Mouse EST Project  
                          WashU-HHMI Mouse EST Project  
                          Washington University School of MedicineP  
                          4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
                          Tel: 314 286 1800

Fax: 314 286 1810  
 Email: mouseest@watson.wustl.edu  
 This clone is available royalty-free through LLNL ; contact the  
 IMAGE Consortium (info@image.llnl.gov) for further information.  
 MGI:492254  
 Seq primer: -28m13 rev2 ET from Amersham  
 High quality sequence stop: 397.

FEATURES	Location/Qualifiers
source	1. .438 /organism="Mus musculus" /strain="C57BL/6J" /db_xref="taxon:10090" /clone="IMAGE:832038" /clone_lib="Soares_mammary_gland_NbMMG" /sex="male" /tissue_type="mammary gland" /dev_stage="4 weeks" /lab_host="DH10B" /note="Organ: mammary gland; Vector: pT7T3D-Pac (Pharmacia ) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was primed with a Not I - oligo(dT) primer [5' TGTACCAATCTGAAGTGGGAGCGGCCGCGAATGGTTTTTTTTTTTTTTTTTTTTTTTT T 3']; double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. RNA provided by Dr. Minoru Ko, Wayne State Univ. Library constructed and normalized by Bento Soares and M.Fatima Bonaldo."
BASE COUNT	86 a 138 c 133 g 81 t
ORIGIN	

Query Match 88.6%; Score 18.6; DB 9; Length 438;  
 Best Local Similarity 94.7%; Pred. No. 38;  
 Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy	1 ggtaacttgtygtgaggag 19
	:
Db	344 GGTAACCTTGTGTGCGGAG 326